

## Monitoring Well installation

### Important for Determining

- Ambient ground-water flow directions
- Water table mounding due to discharge
- Water quality impacts of effluent disposal

### Methods:

- Solid stem auger
- Hollow stem auger ~

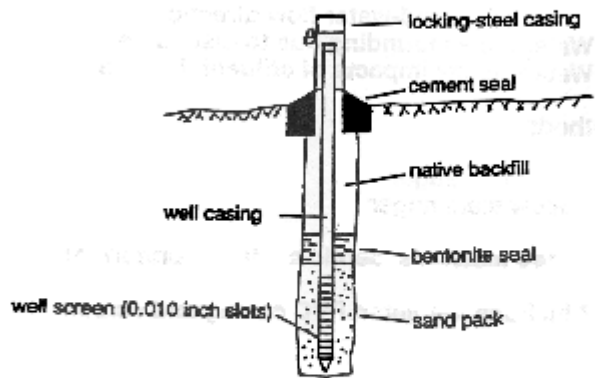
### Preferred materials, septic system monitoring:

2 in. flushed-jointed PVC casing and screen

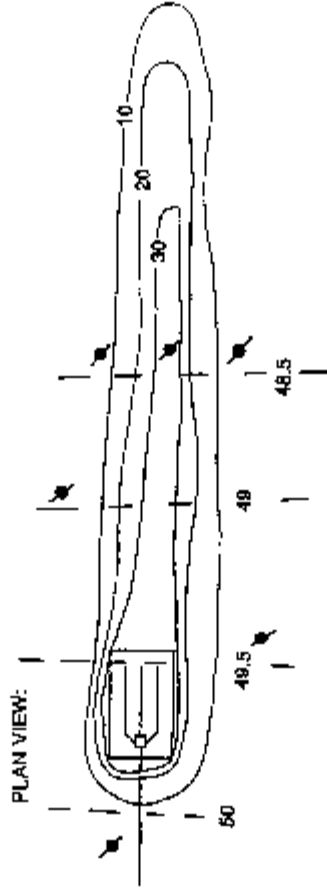
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**TYPICAL WELL CONSTRUCTION DETAIL:**  
(Consult DEP for requirements)



**PLACEMENT OF WELLS:**  
(Depends upon monitoring objectives)



A "plume" is a zone of altered constituent concentration below the water table. (Shown: a nitrate-N plume, with contours in mg/L as N).

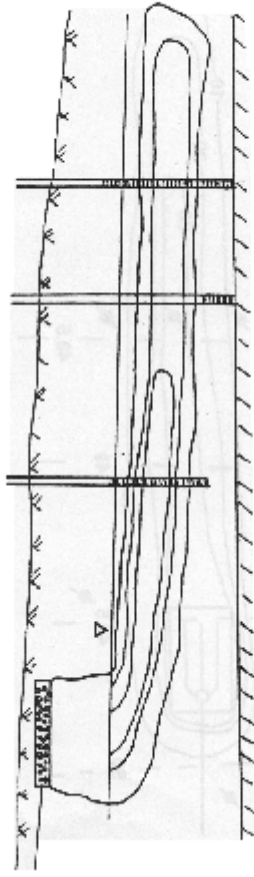
In sandy soils, onsite systems usually generate long, narrow plumes.

Water-table contours are in feet above mean sea level.

4/2/14

**SCREENED INTERVAL:**  
(A critical aspect of well placement)

**CROSS SECTION:**



Set screens so that they intersect the plume

